

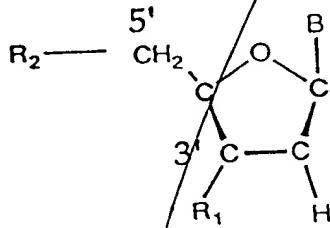
Claims

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1. A nucleoside 5'-phosphate having a removable blocking moiety protecting the 3' position which is selected from the group consisting of esters, ethers, carbonitriles, phosphates, carbonates, carbamates, borates, nitrates, sugars, phosphoramidates, phenylsulfenates, sulfates, sulfones, wherein said removable blocking moiety is linked to the 3' carbon of said nucleoside 5'-triphosphate.

*Subj. 10*

2. A nucleoside 5'-phosphate having a removable blocking moiety protecting the 3' position having the following formula:



*B*

wherein R2 is triphosphate, diphosphate or monophosphate; and wherein R1 is selected from the group consisting of phosphate, phosphoramidate and phosphoramide.

*b* 3. The nucleoside 5' phosphate of claim 2  
wherein R<sub>2</sub> is triphosphate and R<sub>1</sub> is phosphate.

*a* 4. The nucleoside 5'-phosphate of claim 2  
wherein said removable blocking moiety is removable by an  
enzyme.

*c* 5. The nucleoside 5'-<sup>triphosphate</sup> phosphate of claim 2  
wherein said removable blocking moiety is removable by a  
reaction which occurs within 2 to 10 minutes.

*c* 6. The nucleoside 5'-<sup>triphosphate</sup> phosphate of claim 2  
10 wherein said removable blocking moiety is linked to a  
solid support.